

11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209 501-455-3233 Fax 501-455-6118

19 February 2015

Jim Fleer
Oxford Environmental & Safety, Inc
14348 Nieman Rd.
Overland Park, KS 66221

RE: Arkwood Monthly Sampling

SDG Number: 1502169

Enclosed are the results of analyses for samples received by the laboratory on 12-Feb-15 09:30. If you have any questions concerning this report, please feel free to contact me.

# Sample Receipt Information:

Custody Seals						
Containers Correct						
COC/Labels Agree	<u> </u>					
Received On Ice	~					
Temperature on Receipt	3.0°C					

Norma James / Seresa Coins

Sincerely,

Norma James

President

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**Project: Arkwood Monthly Sampling** 

Date Received: 12-Feb-15 09:30



Sample Delivery Group - 1502169

#### One OR more of the qualifiers described below may appear in this report.

## **QUALITY CONTROL QUALIFIERS:**

Qualifier Description

%D3

E20 Sample used as "parent" for the associated analytical batch. %D3/S-01 / E1 Surrogate failed to recover within acceptance criteria (%D3/S-01). Results associated with this surrogate were qualified as "estimated" (E1).

В Present in the Associated Blank В1 Present in Blank, but Not In the Sample.

%D2 / E5 Laboratory Control Spike (LCS) and/or Laboratory Control Spike Duplicate (LCSD) failed to recover with acceptance criteria (%D2).

Associated results were qualified as "estimated" (E5).

Matrix pike (M ) and/or Matrix pike Duplicate (M D) failed acceptance criteria %D1 MBA Failed criteria due the high concentration of analyte in the parent sample.

MBI Failed criteria due an interference in the parent sample.

Quality Control Surrogate failed acceptance criteria. **NREC** Quality Control Surrogate failed.

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## **ANALYTICAL RESULTS**

Lab Number: 1502169-01
Sample Name: Mouth
Date/Time Collected: 2/11/15 10:45
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	Method
Pentachlorophenol	ug/L	118		2/13/15 17 49	A502181	8270D, Rev 4, 2007
2,4,6-Tribromophenol [surr]	%	97.8		2/13/15 16:45	A502181	8270D, Rev 4, 2007
2-Fluorophenol [surr]	%	69.7		2/13/15 16:45	A502181	8270D, Rev 4, 2007
Phenol-d5 [surr]	%	50.0		2/13/15 16:45	A502181	8270D, Rev 4, 2007

# **ANALYTICAL RESULTS**

Lab Number: 1502169-02RE1
Sample Name: Weir

Date/Time Collected: 2/11/15 10:15
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	< 1.00	E1	2/18/15 16:42	A502181	8270D, Rev 4, 2007
2,4,6-Tribromophenol [surr]	%	82.7		2/18/15 16:42	A502181	8270D, Rev 4, 2007
2-Fluorophenol [surr]	%	25.5	%D3	2/18/15 16:42	A502181	8270D, Rev 4, 2007
Phenol-d5 [surr]	%	31.5		2/18/15 16:42	A502181	8270D, Rev 4, 2007

Jim Fleer Oxford Environmental & Safety, Inc

**Project: Arkwood Monthly Sampling** 





Date Received: 12-Feb-15 09:30 **QUALITY CONTROL RESULTS** 

# Semivolatiles - Quality Control Analyzed: 13-Feb-15 14:59 By: KR

A1	iaiyzcu. 1	.5 . C.	13 14.33 0	y. ixix					
	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared 8	Analyzed:	13-Feb-15				
ND	1.00	ug/L							
37.7		"	40.0		94.1	33-148			
29.4		"	40.0		73.5	42.5-82.1			
20.7		"	40.0		51.9	30-61			
			Prepared 8	Analyzed:	13-Feb-15				
39.6	1.00	ug/L	40.0		99.0	56-118			
39.9		"	40.0		99.8	66-132			
28.1		"	40.0		70.2	41-72			
23.0		"	40.0		<i>57.5</i>	29-58			
Sour	ce: 15021	50-03	Prepared 8	Analyzed:					
31.9	1.00	ug/L	40.0	1.25	76.6	59.5-122			
30.5		"	40.0		76.2	55.9-134			
17.9		"	40.0		44.8	17.1-87.4			
14.8		"	40.0		37.0	14.7-66.9			
Sour	ce: 15021	50-03	Prepared 8	Analyzed:	13-Feb-15				
34.3	1.00	ug/L	40.0	1.25	82.7	59.5-122	7.28	8.94	
30.0		"	40.0		75.1	55.9-134			
17.7		"	40.0		44.2	17.1-87.4			
14.4		"	40.0		36.0	14.7-66.9			
	Result  ND  37.7 29.4 20.7  39.6 39.9 28.1 23.0  Sour 31.9 30.5 17.9 14.8  Sour 34.3 30.0 17.7	Result Limit  ND 1.00  37.7 29.4 20.7  39.6 1.00 39.9 28.1 23.0  Source: 15021: 31.9 1.00 30.5 17.9 14.8  Source: 15021: 34.3 1.00 30.0 17.7	Result Limit Units    ND	Reporting   Spike   Level	Result   Limit   Units   Level   Result	Result Limit Units Level Result %REC  Prepared & Analyzed: 13-Feb-15  ND 1.00 ug/L  37.7 " 40.0 94.1  29.4 " 40.0 73.5  20.7 " 40.0 51.9  Prepared & Analyzed: 13-Feb-15  39.6 1.00 ug/L 40.0 99.0  39.9 " 40.0 99.8  28.1 " 40.0 70.2  23.0 " 40.0 57.5  Source: 1502150-03 Prepared & Analyzed: 13-Feb-15  31.9 1.00 ug/L 40.0 1.25 76.6  30.5 " 40.0 76.2  17.9 " 40.0 37.0  Source: 1502150-03 Prepared & Analyzed: 13-Feb-15  31.9 Tool ug/L 40.0 1.25 76.6  30.5 " 40.0 76.2  17.9 " 40.0 37.0  Source: 1502150-03 Prepared & Analyzed: 13-Feb-15  34.3 1.00 ug/L 40.0 1.25 82.7  34.3 1.00 ug/L 40.0 1.25 82.7	Result   Limit   Units   Level   Result   %REC   Limits	Reporting   Spike   Source   Week   Result   Week   Result   Week   Result   Resul	Result         Limit         Units         Spike         Source         %REC         RPD         Limit           Prepared & Analyzed: 13-Feb-15           ND         1.00         ug/L

## QUALIFIER(S)

\*%D3: Surrogate Percent Recovery Does Not Meet Laboratory Acceptance Criteria

noma James / Cleresa Coins

\*E1: Estimated Result Due to Surrogate Failure

All Analy i performed according to EPA approved methodology when available SW 846, Revi ed December, 1996; EPA 600/4 79 020, Revi ed March, 1983; Standard Method In trument calibration and quality control ample performed at or above frequency pecified in analytical method

Reviewed by

and/or Tere a Coin Norma Jame Technical Director and/or QA Officer



11701 Interstate 30, Bldg. 1, Ste. 115 Little Rock, AR 72209

PHONE: 501-455-3233 FAX: 501-455-6118

# **CHAIN OF CUSTODY RECORD**

CLIENT INFORM	TATION						Project De:	scription		Turnaround Time	Preservation Codes:											
Oxford Environr	mental & Safety	, Inc.					Arkwood Monti	hly Sampling		1 Day (100%)	1. Cool,	Cool, 4 Degrees Centigrade					4. Thiosulfate for Dechlorination					
14348 Nieman Rd.								2 Day (50%)	2. Sulfu	ric Acid (	(H <sub>2</sub> SO <sub>4</sub> ),	pH < 2			5. Hydrochloric Acid(HCl)							
Overland Park KS 66221					Reporting Information			3 Day (25%)	3. Nitrio	Acid (H	NO <sub>3</sub> ), p	H < 2			6. Sodium Hydroxide (NaOH), pH > 12							
							Telephone: 91	13-706-3422	7	5 Day (Routine)	>		TES	T P	ARA	MET	TERS			Bottle Type Code		
Attn: Jim Fleer							Email: jfleer@oxf	fordeands.com		Preservative Code:	1									G = Glass; P = Plastic		
										Bottle Type:	GA									V = Septum; A = Amber		
Sampler(s) Signature  Sampler(s) Prin					Fleer ted					Pentachlorophenol (8270D)									Arkansas Analytical Work Order Number:			
Field	254-2776	OLLECTION			Number	Sample		SAMPL			enta 270									Dalla		
Number	Date/s	Time/s	Grab	Comp	Bottles	Matrix	IDENTI	FICATION/	DESC	RIPTION	g 80								$\dashv$	1502169-		
	2/11/15	10:45	X	_	2	Wate	Mouth				Х									01		
	ZIIIIIS	10115	Х		2	Wate	Weir				Х									02		
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				-	-																	
1. Relinquished by	v: (Signature)	Date/Time		2 Re	ceived	hv: (S	ignature)	SAME	OF C	ONDITION UPON	RECEIPT	TINIAR			RF	MARK	(S/SA	VIPLE CO	MMC	ENTS		
				D). 10	ignature/						Flow Rate - 2.29											
Zinlis C		0	1. CUSTO			prine abusin		YesNo														
11:30 10		cel	UX		2. CONTAIN	IERS	CORRECT:	Yes			O <sub>3</sub> Power - 20%											
			3. COC/LABELS			ELS A	AGREE:	YesNo			O <sub>3</sub> Conc - 1,90											
3. Relinquished by: (Signature) Date/Time 4. Received			ceived	by lab:	: (Signature)	4. RECEIVE	D ON	ICE:		s!		O <sub>3</sub> Residual - 324										
0.1015- 0.1		id	5. TEMPERATU			ATUR	IRE ON RECEIPT: 300															
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